

DII COE
Impact on Acquisition
Strategies:
“A Government/Industry Team Chal

CDR Bruce C. Binney
US Navy DII COE Engineer
binney@spawar.navy.mil
(619) 553-6260

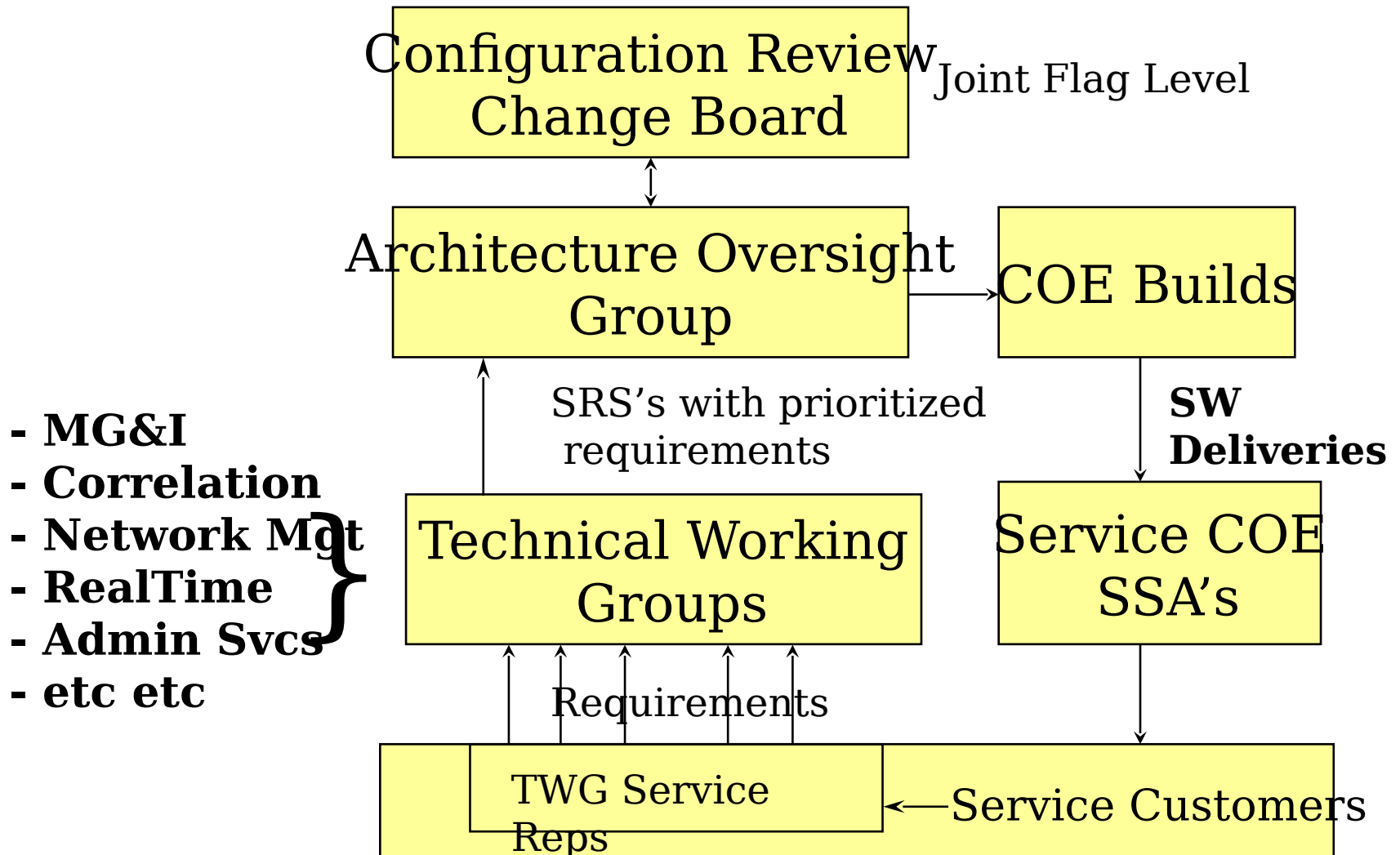
22 April 1998

DII COE Acq Strat Background

- DoD policy mandates DII COE for C4I systems
- Utilization of COE across DoD yields tremendous benefits (LCC, interoperability)
- *Challenge*: Incorporate DII COE requirement into contractual strategy in a manner which balances Govt and Contractor technical and programmatic benefits and risks

Q: How Is DII COE Managed?

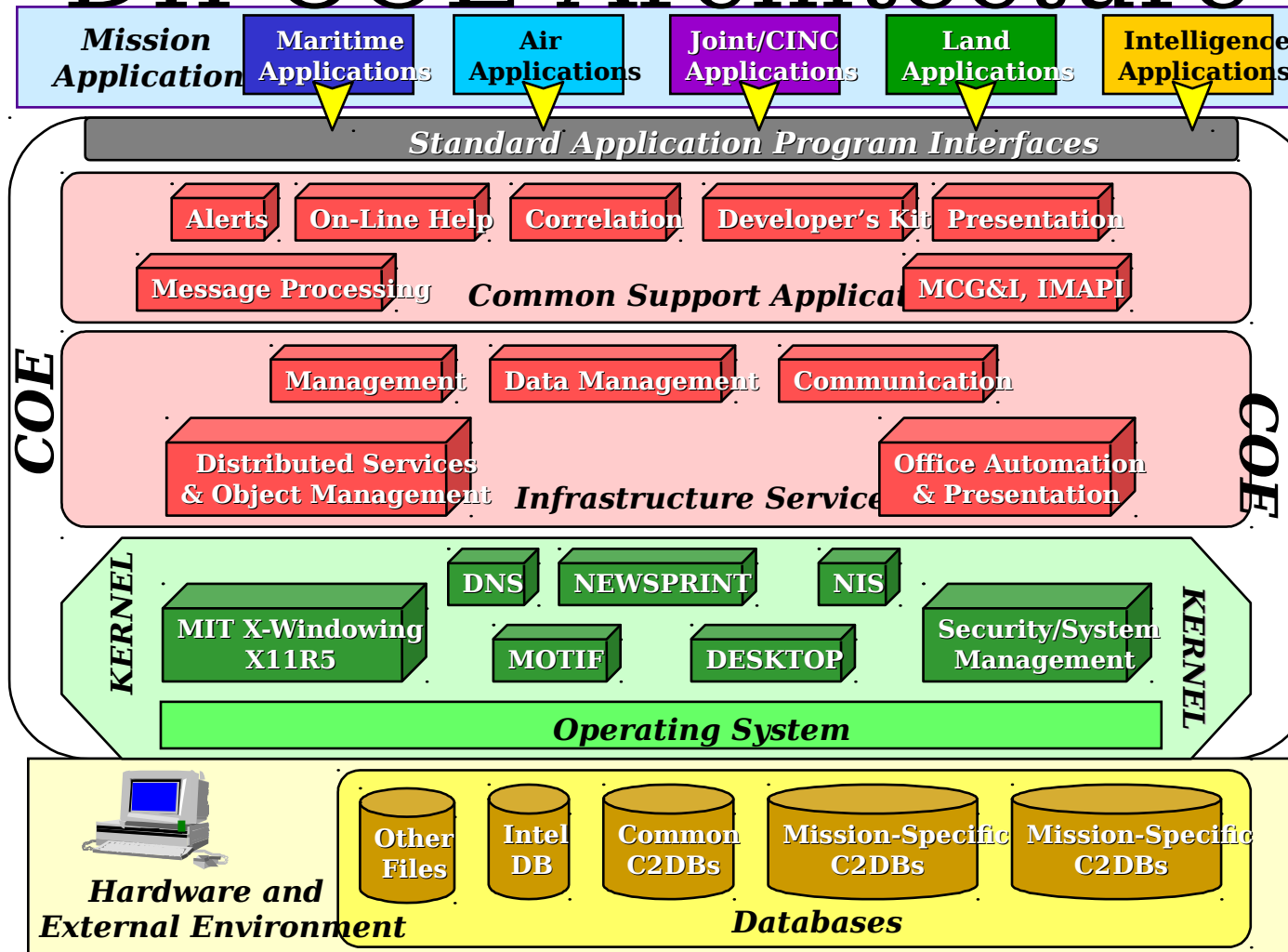
A: Jointly, with DISA leadership



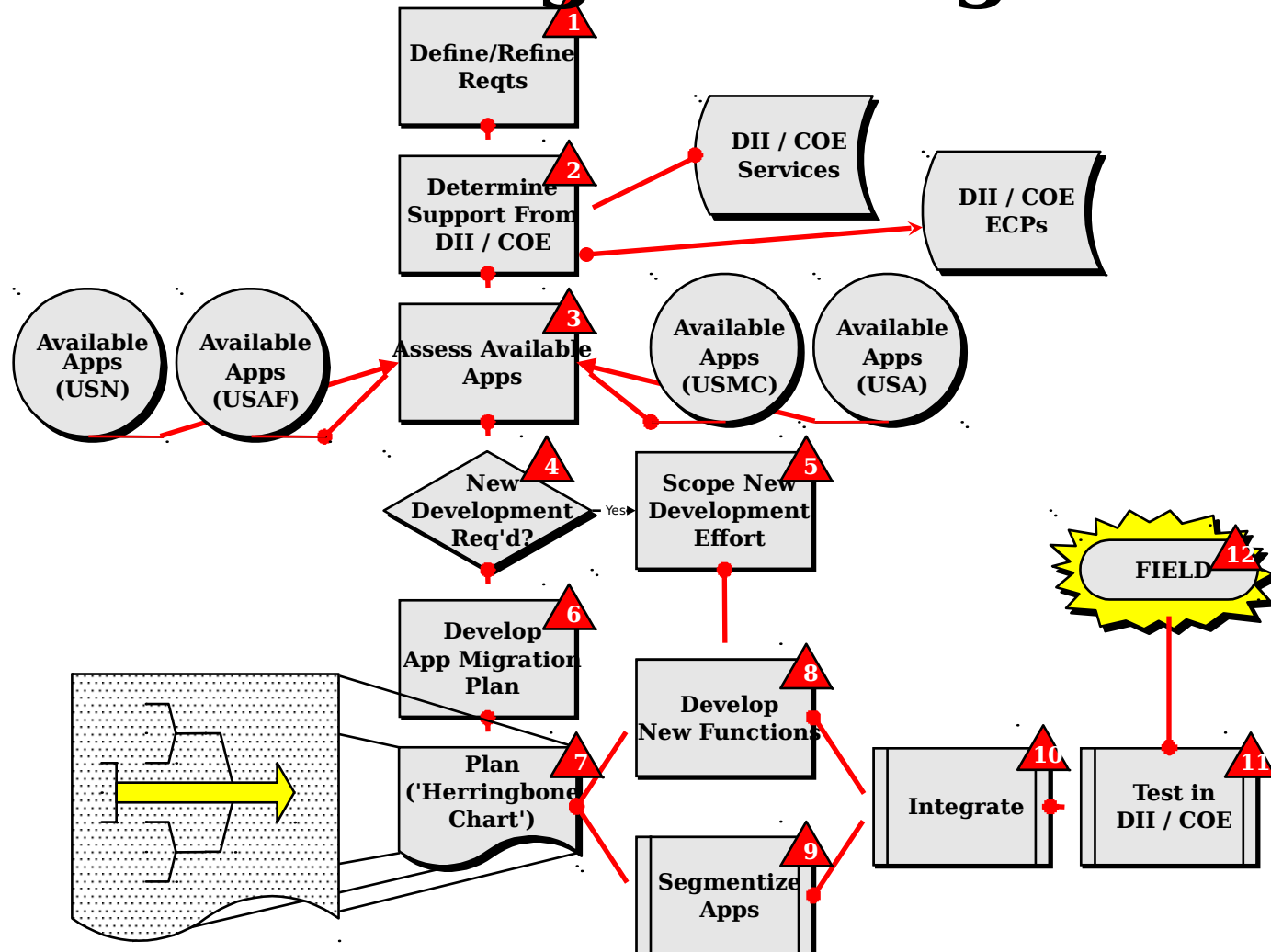
DII COE Acq Strat Challenges

- DII COE is GFE/GFI
- System PM's do not control DII COE
 - cooperative process between services and DISA
- DII COE structure/functionality evolves during acquisition cycle (and can be ECP'd to support customer requirements)
- Result: Success requires strong and *educated* Govt/Contractor team with well defined roles in the context of the DII COE
PROCESS

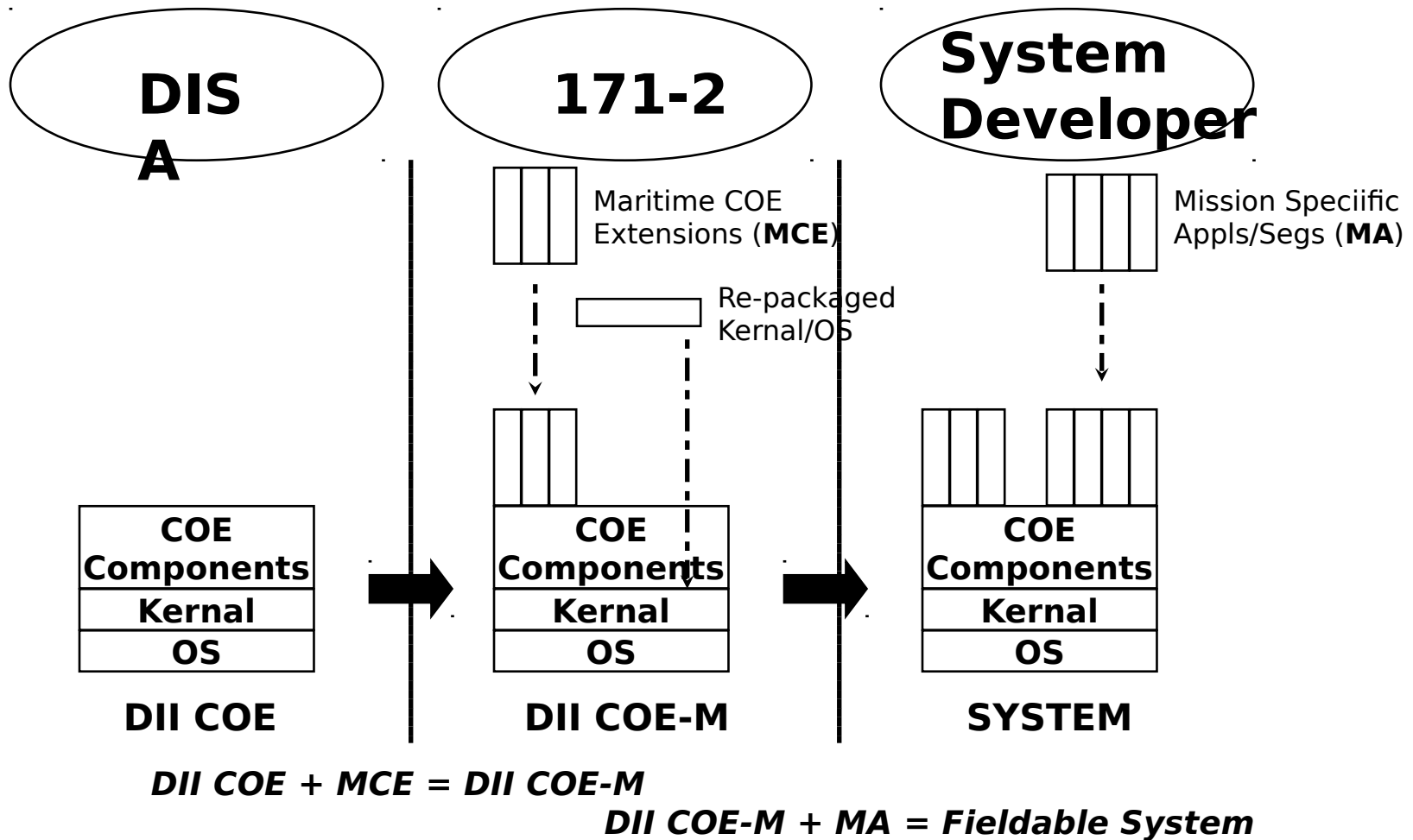
DII COE Architecture



DII COE Systems Engineering Process



Building a DII COE Based System (Navy Example)



DII COE Levels of Compliance

- Documented in Integration and Runtime Spec (I&RTS)
 - Level 1: Standards Compliance
 - Level 2: Network Compliance
 - Level 3: Workstation Compliance
 - Level 4: Bootstrap Compliance
 - Level 5: Minimal COE Compliance
 - segments share kernel COE
 - Level 6: Intermediate Compliance
 - DII Style Guide Compliant, partial utilization of COE Functions
 - Level 7: Interoperable Compliance
 - segment does not duplicate Db services, data or function of COE
 - Level 8: Full Compliance

DII COE Levels of Integration

- Issue: DII COE levels of compliance don't guarantee an integrated implementation (10 level-8 systems could be stovepiped on one ship...!)
- System Integration Requirements must be specified in DII COE context
 - Must consider relationships between independently acquired DII COE based systems
 - Govt must facilitate target architecture integration, and contractors must team across contracts for net result.

DII COE Acquisition Strategy Challenges: Summary

- DII COE process requires innovative acquisition/contracting strategies
- Approach must emphasize Govt/Contractor team structure and DII COE process
- Success requires in-depth understanding of technical/programmatic DII COE process
- The net result is worth the effort!!

Contract

Software

DISA

DII COE Customer Support Process

SPAWAR PMW 171-2

Represent Navy Requirements to DISA
ECP Process/TWG SRS Process
Infrastructure Management
DII COE Strategy / Customer Support
Joint Coordination

SSC San Diego

DII COE-M Test
DII COE-M CM - STR Tracking, LCCB
DII COE-M Distribution
DII Strategy / Technical Support
Developer Support - Basic & Extended
License Management

DII COE Contractor

DII COE-M Specific SW Engineering
Maintain Maritime COE Extensions
Develops Maritime Priority COE
Enhancements and Fixes
Developer Support - Basic & Extended
Supports DII COE-M Infrastructure
Management Process

DII
Support
Process

Strategy

N6 / N8

ORD

Assistance/
Strategy

SYSCOM

User Fee/
Task

Software/
Assistance

Task

Contractor
Task

Lab

User Fee/
Task /
ECP Segments

Contractor

K